



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:	)	Docket No.: 016472-0311707
	)	
Soheil SHAMS	)	Confirmation No.: 3936
	)	
Serial No.: 10/658,763	)	Examiner: Gregory M. Desire
	)	
Filed: September 10, 2003	)	Group Art Unit: 2625

For: AUTOMATED DNA ARRAY IMAGE SEGMENTATION AND ANALYSIS

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby makes of record in the above-identified application the documents listed on the attached Form PTO-1449.

Applicant has listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated. Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not an issue.

Applicant reserves the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This Supplemental Information Disclosure Statement is being filed before the mailing date of a first Office Action after the filing of a request for continued examination under 37 C.F.R. 1.114. No certification or fee is required. 37 C.F.R. 1.97(b).


A copy of each cited U.S. patent is not submitted herewith pursuant to the Official Gazette Notice of August 5, 2003, wherein the Office waived the requirement under 37 C.F.R. 1.98(a)(2)(i) for all U.S. national phase applications filed after June 30, 2003.

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449.

Respectfully submitted,

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Dated: July 6, 2005



**INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION**

Form PTO-1449

Docket Number	Application Number
016472-0311707	10/658,763
Applicant(s)	
Soheil SHAMS	
Filing Date	Group Art Unit
September 10, 2003	

**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL	REF	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	1A	4,550,084	10/1985	Nelson <i>et al.</i>			
	1B	4,641,528	02/1987	Claylang, Jr. <i>et al.</i>			
	1C	5,121,320	06/0992	Aoki <i>et al.</i>			
	1D	5,134,662	07/28/1992	Bacus <i>et al.</i>	382	133	
	1E	5,202,932	04/1993	Cambier <i>et al.</i>	382	142	
	1F	5,273,632	12/1993	Stockham <i>et al.</i>			
	1G	5,389,792	02/1995	DiMarzio <i>et al.</i>			
	1H	5,417,923	05/1995	Bojanic <i>et al.</i>			
	1I	5,541,064	07/1996	Bacus <i>et al.</i>			
	1J	5,552,270	09/1996	Khrapko <i>et al.</i>	435	6	
	1K	5,560,811	10/1996	Briggs <i>et al.</i>			
	1L	5,580,728	12/1996	Perlin			
	1M	5,581,631	12/03/1996	Ortyn <i>et al.</i>	382	128	
	1N	5,583,973	12/1996	DeLisi <i>et al.</i>			
	1O	5,680,514	10/1997	Shams			
	1P	5,695,937	12/1997	Kinzler <i>et al.</i>			
	1Q	5,732,277	03/24/1998	Kodosky <i>et al.</i>	395	800	
	1R	5,757,954	05/1998	Kuan <i>et al.</i>			
	1S	5,773,218	06/30/1998	Gallatin <i>et al.</i>	435	6	
	1T	5,777,888	07/07/1998	Rine <i>et al.</i>	702	19	
	1U	5,785,658	07/28/1998	Benaron <i>et al.</i>	600	473	
	1V	5,811,517	09/22/1998	Gallatin <i>et al.</i>	530	350	
	1W	5,837,475	11/1998	Dorsel <i>et al.</i>			

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						YES	NO
1X	WO 01/16860	03/08/2001	International				

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1Y	BIO001 - M. BURL, "Recognition of Visual Object Classes", <u>Jet Propulsion Laboratory</u> , V-0105, March 30, 1996, 12 pages.
1Z	BIO002 - M. TAINE and A. HERMENT, "Extraction of Heart and Vessel Walls on Ultrasound Images Using Snake-Splines", <u>SPIE</u> , Volume 2434, March 1995, pages 808-816.
1AA	BIO003 - M. JOLLY, S. LAKSHMANAN and A. JAIN, "Vehicle Segmentation and Classification Using Deformable Templates", <u>IEEE</u> , Volume 18, No. 3, March 1996, pages 293-305.
1BB	BIO004 - Y. AMIT and A. KONG, "Graphical Templates for Model Registration", <u>IEEE</u> , Volume 18, No. 3, March 1996, pages 225-236.

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	2A	5,851,769	12/1998	Gray <i>et al.</i>				
	2B	5,853,979	12/1998	Green <i>et al.</i>				
	2C	5,865,975	02/1999	Bishop				
	2D	5,869,262	02/09/1999	Gallatin <i>et al.</i>	435	7.1		
	2E	5,876,933	03/1999	Perlin				
	2F	5,880,268	03/09/1999	Gallatin <i>et al.</i>	530	387.3		
	2G	5,887,074	03/23/1999	Lai <i>et al.</i>	382	128		
	2H	5,916,747	06/1999	Gilchrist <i>et al.</i>				
	2I	5,945,284	08/1999	Livak <i>et al.</i>				
	2J	5,945,679	08/1999	Dorsel <i>et al.</i>				
	2K	5,970,164	10/19/1999	Bamberger <i>et al.</i>	382	128		
	2L	5,980,096	11/09/1999	Thalhammer-Reyero	364	578		
	2M	5,981,190	11/1999	Israel				
	2N	5,989,835	11/1999	Dunlay <i>et al.</i>	435	7.2		
	2O	6,040,176	03/21/2000	Gallatin <i>et al.</i>	435	326		
	2P	6,054,270	04/25/2000	Southern	435	6		
	2Q	6,100,383	08/08/2000	Gallatin <i>et al.</i>	530	387.3		
	2R	6,103,479	08/15/2000	Taylor	435	7.2		
	2S	6,127,129	10/03/2000	Corn <i>et al.</i>	435	6		
	2T	6,150,179	11/21/2000	Went	436	173		
	2U	6,185,561	02/06/2001	Balaban <i>et al.</i>	707	6		
	2V	6,207,958	03/27/2001	Giakos	250	385.1		
	2W	6,222,093	04/24/2001	Marton <i>et al.</i>	800	3		
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	2X	BIO005 - B. OLSTAD and A. TORP, "Encoding of a Priori Information in Active Contour Models", <u>IEEE</u> , Volume 18, No. 9, September 1996, pages 863-872.						
	2Y	BIO006 - A. ABRANTES and J. MARQUES, "A Class of Constrained Clustering Algorithms for Object Boundary Extraction", <u>IEEE</u> , Volume 5, No. 11, November 1996, pages 1507-1521.						
	2Z	BIO007 - A. JAIN, Y. ZHONG and S. LAKSHMANAN, "Object Matching Using Deformable Templates", <u>IEEE</u> , Volume 18, No. 3, March 1996, pages 267-278.						
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	3A	6,223,186	04/24/2001	Rigault <i>et al.</i>	707	104		
	3B	6,226,542	05/01/2001	Reisfeld	600	407		
	3C	6,245,517	06/12/2001	Chen <i>et al.</i>	435	6		
	3D	6,251,601	06/26/2001	Bao <i>et al.</i>	435	6		
	3E	6,263,092	07/17/2001	Roehrig <i>et al.</i>	382	128		
	3F	6,263,287	07/17/2001	Zheng <i>et al.</i>	702	20		
	3G	6,301,378	10/09/2001	Karssemeijer <i>et al.</i>	382	132		
	3H	6,303,301	10/2001	Mack	435	6		
	3I	6,308,170	10/23/2001	Balaban	707	3		
	3J	6,341,256	01/22/2002	Deem <i>et al.</i>	702	19		
	3K	6,345,115	02/05/2002	Ramm <i>et al.</i>	382	133		
	3L	6,349,144	02/19/2002	Shams	382	129		
	3M	6,351,712	02/2002	Stoughton <i>et al.</i>	702	19		
	3N	6,362,004	03/26/2002	Noblett	436	43		
	3O	6,362,832	03/26/2002	Stephan <i>et al.</i>	345	629		
	3P	6,381,058	04/30/2002	Ramm <i>et al.</i>	359	242		
	3Q	2002/0052882	05/02/2002	Taylor	707	104.1		
	3R	6,389,428	05/14/2002	Rigault <i>et al.</i>	707	104.1		
	3S	6,441,973	08/27/2002	Ramm <i>et al.</i>	359	778		
	3T	6,453,241	09/17/2002	Bassett, Jr. <i>et al.</i>	702	19		
	3U	6,462,187	10/08/2002	Bandaru	536	23.2		
	3V	6,470,277	10/22/2002	Chin <i>et al.</i>	702	19		
	3W	6,475,736	11/05/2002	Stanton, Jr.	435	6		
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	3X	BIO008 - M. KASS, A. WITKIN and D. TERZOPOULOS, "Snakes: Active Contour Models", <u>International Journal of Computer Vision</u> , 1998, pages 321-331.						
	3Y	BIO009 - S. SHAMS, "Multiple Elastic Modules for Visual Pattern Recognition", <u>Neural Networks</u> , Volume 8, No. 9, 1995, pages 1439-1453.						
	3Z	BIO010 - D. SHU, J. NASH, M. ESHAGHIAN and K. KIM, "Straight-Line Detection on a Gated-Connection VLSI Network", <u>P IEEE Comp. Soc.</u> , June 1990, pages 456-461.						

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	4B	6,498,863	12/24/2002	Gaidoukevitch <i>et al.</i>	382	173	
	4C	6,537,749	03/25/2003	Kuimelis <i>et al.</i>	435	6	
	4D	6,544,790	04/2003	Sabatini	435	455	
	4E	6,553,317	04/22/2003	Lincoln <i>et al.</i>	702	20	
	4F	2003/0100995	05/29/2003	Loraine <i>et al.</i>	702	19	
	4G	6,577,956	06/10/2003	Shams	702	19	
	4H	6,591,196	07/2003	Yakhini <i>et al.</i>	702	28	
	4I	2003/0148295	08/07/2003	Wan <i>et al.</i>	435	6	
	4J	6,632,600	10/14/2003	Short	435	4	
	4K	6,633,659	10/14/2003	Yi-Xiong	382	129	
	4L	6,673,549	01/06/2004	Furness <i>et al.</i>	435	6	
	4M	6,674,882	01/06/2004	Shams	382	129	
	4N	6,683,455	01/27/2004	Ebbels <i>et al.</i>	324	309	
	4O	6,690,399	02/10/2004	Carlson <i>et al.</i>	345	771	
	4P	6,714,925	03/30/2004	Barnhill <i>et al.</i>	706	48	
	4Q	6,731,781	05/04/2004	Shams <i>et al.</i>	382	129	
	4R	6,760,715	07/06/2004	Barnhill <i>et al.</i>	706	16	
	4S	6,789,069	09/07/2004	Barnhill <i>et al.</i>	706	12	
	4T	6,839,454	01/04/2005	Park	382	128	
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	4U	BIO011 - S. SHAMS, "Translation-, Rotation-, Scale-, and Distortion-Invariant Object Recognition Through Self-Organization", <u>International Journal of Neural Systems</u> , Volume 8, No. 2, April 1997, pages 173-179.					
	4V	BIO012 - Yidong CHEN <i>et al.</i> , "Ratio-Based Decisions and the Quantitative Analysis of cDNA Microarray Images", <u>Journal of Biomedical Optics</u> , Volume 2, No. 4, October 1997, pages 364-374.					
	4W	BIO015 - M. SCHENA, D. SHALON, R. W. DAVIS, and P. O. BROWN, "Quantitative Monitoring of Gene Expression Patterns with a Complementary DNA Microarray", <u>Science</u> , Volume 270, No. 5235, October 20, 1995, pages 467-470.					
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	5A	BIO017 - M. SCHENA, D. SHALON, R. HELLER, A. CHAI, P. O. BROWN, and R. W. DAVIS, "Parallel Human Genome Analysis: Microarray-based Expression Monitoring of 1000 Genes", <u>Proc. Nat. Acad. Sci. U.S.A.</u> , Volume 93, No. 20, October 1996, pages 10614-10619.					
	5B	BIO018 - SCHENA, "Genome Analysis with Gene Expression Microarrays", <u>BioEssays</u> , Volume 18, No. 5, January 3, 1996, pages 427-431.					
	5C	BIO019 - LEMIEUX, AHARONI, and SCHENA, "Overview of DNA Chip Technology", <u>Molecular Breeding</u> , 1998, pages 277-289.					
	5D	BIO020 - SCHENA, HELLER, THERIAULT, KONRAD, LACHENMEIER, and DAVIS, "Microarrays: Biotechnology's Discovery Platform for Functional Genomics", <u>Tibtech</u> , Volume 16, July 1998, pages 301-306.					
	5E	BIO021 - HELLER, SCHENA, CHAI, SHALON, BEDILION, GILMORE, WOOLLEY, and DAVIS, "Discovery and Analysis of Inflammatory Disease-Related genes using cDNA Microarrays", <u>Proc. Natl. Acad. Sci. USA</u> , Volume 94, March 1997, pages 2150-2155.					
	5F	BIO022 - SCHENA and DAVIS, "Parallel Analysis with Biological Chips", <u>PCR Methods Manual</u> , pages 445-455.					
	5G	BIO023 - SCHENA and DAVIS, <u>DNA Microarray Protocols</u> , 19 pages.					
	5H	BIO024 - ArrayIt, "Micro-Spotting Device for a Broad Range of Microarray Manufacturing Applications", <u>Chip Maker 2 Handbook</u> , June 1, 1998, 8 pages.					
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	5J	BIO026 - ArrayIt, "High-Throughput Purification of PCR Products for DNA Microarrays, Sequencing and Other Applications in Genomics", <u>96 &amp; 384 Well PCR Purification Kits</u> , 4 pages.					
	5K	BIO027 - ArrayIt, "Designed for Hybridization Reactions Involving Nucleic Acid Microarray Biochips", <u>Hybridization Cassette Handbook</u> , 1998, 10 pages.					
	5L	BIO028 - ArrayIt, "Advanced Polymeric Mixture Designed to Increase the Quality of Microarray Biochip Fabrication by Improving the Surface Properties of the DNA Micro-Spotting Technologies", <u>Micro-Spotting Solution (2X) Handbook</u> , 1998, 8 pages.					
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	6C	BIO035 - DeRISI <i>et al.</i> , "Exploring the Metabolic and Genetic Control of Gene Expression on a Genomic Scale", <u>Science</u> , Volume 278, October 24, 1997, pages 680-686.					
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	6E	BIO039 - SCHUTZ <i>et al.</i> , "Spreadsheet Software for Thermodynamic Melting Point Prediction of Oligonucleotide Hybridization With or Without Mismatches", <u>BioTechniques</u> , Volume 27, No. 6, 1999, pages 1218-1222.					
	6F	BIO040 - 60/306,033, 2 pages.					
	6G	BIO041 - 60/276,947, 1 page.					
	6H	BIO042 - KALOCSAI, P., <i>et al.</i> , "Visualization and Analysis of Gene Expression Data", JALA, Volume 4, No. 5, November 1999, pages 58-61.					
	6I	BIO043 - "G2 Real Time Expert System, GDA and Neur-on-line", Gensym Corporation, 1995, 5 pages.					
	6J	BIO044 - "Gensym Corporation Announces G2 Classic 5.2", Gensym Corporation, Article 4202, Volume 41, Issue 1, July 3, 2001, 4 pages.					
	6K	BIO045 - "The ArrayExpress Database", European Bioinformatics Institute, August 2000, 2 pages.					
	6L	BIO046 - DRAGHICI, Sorin, <i>et al.</i> , "Experimental Design, Analysis of Variance and Slide Quality Assessment in Gene Expression Arrays", BioDiscovery Inc., <u>Current Opinion in Drug Discovery &amp; Development</u> , Volume 4, No. 3, May 2001, pages 332-337.					
	6M	BIO047 - COMANDER, Jason, <i>et al.</i> , "Argus—A New Database System for Web-Based Analysis of Multiple Microarray Data Sets", <u>Genome Research</u> , Volume 11, No. 9, Cold Spring Harbor Laboratory Press, September 2001, pages 1603-1610.					

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	7B	BIO049 - YOUNG, Lynn, <i>et al.</i> , "Microarray Analysis Using P-SCAN and F-SCAN", <u>International Genome Sequencing and Analysis Conference</u> , No. 12, September 2000, page 105.					
	7C	BIO050 - SAEED, Alexander, <i>et al.</i> , "Data Visualization and Analysis Tools for High Density Microarrays", <u>International Genome Sequencing and Analysis Conference</u> , No. 12, September 2000, page 105.					
	7D	BIO051 - SAMARTZIDOU, Hrisi, <i>et al.</i> , "MicroArray ScoreCard: An Integrated Analysis Tool for Evaluating Data Quality in Microarray Experiments", <u>International Genome Sequencing and Analysis Conference</u> , No. 12, September 2000, pages 107-108.					
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	7G	BIO055 - Javier HERRERO, Alfonso VALENCIA and Joaquín DOPAZO, "A Hierarchical Unsupervised Growing Neural Network for Clustering Gene Expression Patterns," <u>Bioinformatics</u> , vol. 17, no. 2, pp. 126-136, Oxford University Press, 2001, available at <a href="http://bioinformatics.oupjournals.org/cgi/reprint/17/2/126">http://bioinformatics.oupjournals.org/cgi/reprint/17/2/126</a>					
	7H	BIO057 - "GeneSight Users Manual," Version 1.3b, BioDiscovery, Inc., 1999, 46 pages.					
	7I	BIO066 - <a href="http://www.nhgri.nih.gov/DIR/LCG/15K/HTML/aboutmicro.html">http://www.nhgri.nih.gov/DIR/LCG/15K/HTML/aboutmicro.html</a> , printed 7/8/1999, 1 page.					
	7J	BIO067 - <a href="http://www.nhgri.nih.gov/DIR/LCG/15K/HTML/img_analysis.html">http://www.nhgri.nih.gov/DIR/LCG/15K/HTML/img_analysis.html</a> , printed 7/23/1999, 5 pages.					
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